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# Rice Situation

Economics, Statistics,  
and Cooperatives Service

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U.S. Department of  
Agriculture

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TABLE 1.---ROUGH RICE AND MILLED RICE (ROUGH EQUIVALENT): MARKETING YEAR SUPPLY, DISAPPEARANCE, AREA AND PRICES, 1973-78 1/ \*

[illegible]

1/ CONSOLIDATED SUPPLY AND DISAPPEARANCE OF ROUGH AND MILLED RICE. CONVERTED MILLED RICE DATA TO A ROUGH RICE BASIS USING ANNUALLY DERIVED EXTRACTION RATES AS FACTORS. 2/ RESULTS FROM LOSSES IN STORAGE AND HANDLING AND ERRORS IN ESTIMATION. 3/ LESS THAN 50,000 CWT. 4/ PRELIMINARY. 5/ PROJECTED. \*TOTALS MAY NOT ADD DUE TO INDEPENDENT ROUNDING.

# THE RICE SITUATION

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The *Rice Situation* will be published in October 1979.

## SUMMARY

### **U.S. Rice Demand Remains Strong But Record Supply Pressures Prices**

Rice prices have been under downward pressure from the start of this season as result of record U.S. and world rice supplies which continue to weigh on the market. February farm prices were down nearly \$3 per cwt. from a year ago. U.S. growers indicated as of January 1 that they will cut 1979 rice acreage 5 percent, to 2.9 million acres, largely because of lower price levels. Prospects for strong spring soybean prices relative to rice may further reduce actual 1979 rice plantings.

Improved yields and the largest acreage ever planted contributed to a record 1978 U.S. rice crop of 138 million cwt., nearly 40 percent above 1977's. Although carryover stocks last August 1 were the lowest since 1975, the large crop pushed total 1978/79 supply to an unmatched 165 million cwt. However, brisk export and domestic demand is expected to hold 1978/79 season average farm prices between \$7.50 and \$7.80 per cwt., over \$1 above the national loan, but \$1.75 to \$2.00 below last season.

During 1978/79, disappearance of U.S. rice is expected to total a record 114 million cwt. (rough equivalent), with 70 million being exported. Sales to West Europe and the Middle East are above a year ago. Several major Asian buyers are purchasing less from the United States this year because of their larger crops. Further sales to Iran, the United States' most important commercial rice market, remain uncertain.

Large August-December domestic rice disappearance indicates 1978/79 food use should return to normal growth after last year's decline. Brewers rice use also appears headed toward a substantial increase due to more attractive rice prices in relation to corn grits. Total domestic use, including food, seed and brewers' use, is expected to total a record 44 million cwt.



## WORLD 1978/79 RICE SITUATION<sup>1</sup>

### World Harvest Record High

The 1978/79 world rice crop is estimated at a record 373 million metric tons.<sup>2</sup> Production in China and India was about the same as last year, but Indonesia and Thailand harvested record crops, up 14 and 3 percent, respectively. Other major producers (Bangladesh, Burma, Pakistan, Australia, Brazil, and the United States) also had increases in 1978/79.

World rice stocks<sup>3</sup> for 1978/79 are expected to increase to a record 25 million tons at season's end, up nearly a fourth from last year. U.S. stocks will nearly double, and foreign-held stocks are forecast to increase by almost 4 million tons. This year's ending stocks will be about 10 percent of total world use, compared to 8 percent last year. World rice consumption during 1978/79 is projected at a record 247 million tons, up 2 percent from last year.

International trade for calendar 1979 is forecast at approximately 9 million tons, possibly somewhat higher than last year. Increase demand in several countries of the Middle East and Africa will be more than offset by a major drop in Indonesia's imports.

### Situation for Selected Countries

*Indonesia's* rice harvest for 1978/79 is estimated at a record 26 million tons, 14 percent over last year. The bumper harvest is attributed to good weather, reduced pest infestation, increased fertilizer use, and expanded irrigation. Indonesia's 1979 rice imports will be reduced sharply from the 1.9 million tons in 1978. During 1979, Indonesia will probably reduce its currently high stock levels. Storage capacity is about full. Capacity there totals about 1.9 million tons, of which 1.2 million tons is owned by the government. The government has scaled back import requirements for 1979 to around 1.5 million tons.

*India's* 1978/79 rice harvest is estimated at 78.8 million tons, down from the previous year's 79.1

<sup>1</sup>Based in part on FAS, *World Grain Situation Outlook for 1978/79*, FG-3-79, January 26, 1979, and *Foreign Agriculture*, Vol. XVII, No. 8, February 19, 1979.

<sup>2</sup>Production is reported as rough rice but stocks, trade, and use are milled. 1978/79 rice production represents the crops harvested in the last half of 1978 and early 1979 in the Northern Hemisphere, and the crop harvested early in 1979 in the Southern Hemisphere. Trade is on a calendar-year basis.

<sup>3</sup>Stocks data are based on an aggregate of differing local marketing years and should not be construed as representing world stock levels at a fixed point in time. Stocks data are not available for all countries and exclude those such as Burma and China.

World: Rice, production, international trade, stocks,  
and utilization, 1976/77-1978/79<sup>1</sup>

Item/Country	1976/77	1977/78 <sup>2</sup>	1978/79 <sup>3</sup>
Million metric tons			
Production			
China .....	127.5	126.5	127.5
India .....	62.9	79.1	79.2
Indonesia .....	23.3	22.8	26.0
Bangladesh .....	17.6	19.1	19.0
Thailand .....	15.8	15.0	16.0
Japan .....	14.7	16.4	15.7
Burma .....	9.3	9.4	10.0
Other foreign .....	73.5	73.6	74.2
Total foreign .....	344.6	361.9	367.6
United States .....	5.2	4.5	6.3
World total .....	349.8	366.4	373.9
	CY 1977	CY 1978	CY 1979
Exports			
Australia .....	0.3	0.3	0.3
Burma .....	0.7	0.4	0.5
Italy .....	0.3	0.2	0.3
Pakistan .....	0.8	0.8	0.9
China .....	1.0	1.1	1.0
Thailand .....	2.9	1.6	1.8
All others .....	2.2	2.5	2.2
Total Non-U.S. ....	8.1	6.9	7.0
United States .....	2.3	2.2	2.1
World total .....	10.4	9.1	9.1
	1976/77	1977/78	1978/79
Ending stocks			
Total foreign .....	14.9	19.5	23.2
United States .....	1.3	0.9	1.7
World total .....	16.2	20.3	24.9
Utilization			
World total .....	237.5	242.6	247.1

<sup>1</sup> Production is on rough basis; trade, stocks, and utilization are milled basis. <sup>2</sup> Preliminary. <sup>3</sup> Forecast.

Source: FAS, *World Grain Situation Outlook for 1978/79*, FG-3-79, January 26, 1979.

million tons because of extensive flooding during the growing season. Severe floods in early September damaged rice in the western part of the Gangetic Plain, lowering the production prospects in Uttar Pradesh and the Punjab. Bihar and West Bengal's production was also damaged.

*Japan's* output was down by 4 percent as a result of the government's rice reduction program, but still exceeded domestic needs of 15.5 million tons. Japan has announced a \$5-billion, 5-year plan to export and feed surplus supplies of 4.6-4.8 million tons (brown basis) of rice. The surplus disposal program could impact on U.S. rice exports. A portion of the surplus rice will be used

for feed. This could displace up to one-half million tons of imported feed grains annually during the 5 years of the disposal program.

Thailand's rice crop is estimated at a record 16 million tons, up 3 percent from last year despite some flooding. Rice available for export during calendar 1979 most likely will range between 1.8 and 2.2 million tons (milled basis), but could approach the 1977 volume of 2.9 million tons.

China's 1978/79 rice harvest is estimated at 127.5 million tons, 1 million tons more than last year. The harvest was up despite unfavorable weather for the late-harvested (November-December) rice crop.

Bangladesh's rice crop is estimated at a near-record 19.4 million tons, up slightly from last year. Drought during July and August kept rice production below the targeted level of 20.3 million tons expected earlier in the season. Imports, which averaged 288,000 tons during the past 4 years, likely will not be needed during 1978/79.

Burma's 1978/79 rice crop is estimated at a record of at least 10 million tons, up about 16 percent from last year's drought-reduced outturn of 8.6 million tons. The surplus available for export could range from 600,000 to 700,000 tons. Exports

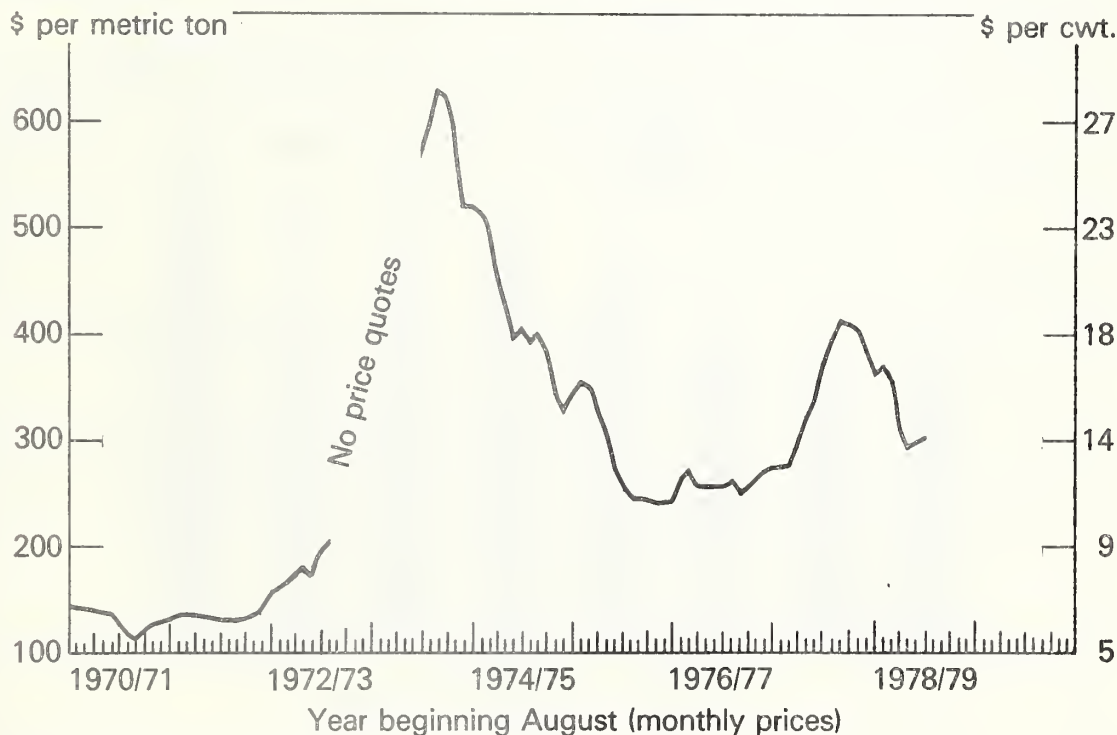
depend on increased shipments to Africa and Middle Eastern markets. Traditional Burmese markets

Rice export prices for Thailand and the United States

Crop year	Bangkok, f.o.b. white 5% broken	U.S. No. 2 long grain f.o.b. mill Houston
<i>Dollars per metric ton</i>		
1977/78		
August .....	275	354
September .....	275	364
October .....	278	403
November .....	294	498
December .....	324	532
January .....	338	551
February .....	374	551
1978/79		
August .....	366	419
September .....	369	364
October .....	360	366
November .....	315	357
December .....	294	360
January .....	299	359
February .....	300	366

Note: This table indicates the direction of U.S. and Thailand rice prices, but should not be taken to imply that the types of rice specified above are of comparable quality.

## Milled Rice: Thailand Export Prices\*



\*White 5% broken, F.O.B. Bangkok.  
USDA

Neg. ESCS 91-A-79(3)

(China, Hong Kong, Sri Lanka, and Indonesia) generally take a combined total of only 350,000-400,000 tons of Burmese rice.

#### International Prices

Record new crop supplies for 1978/79 have reduced world prices from a year ago. Thai prices dropped from an April 1978 high of \$411 a ton to

\$300 in February 1979. U.S. No. 2 long grain (f.o.b. Houston) dropped to \$366 a ton in February 1979 from \$551 a year ago. Large carryover stocks from the record crop will influence world rice prices during the remainder of 1979. With stocks up, prices will likely remain below 1977/78 levels, and may be somewhat less sensitive to new crop developments than when stocks were smaller.

### THE 1978/79 U.S. SITUATION

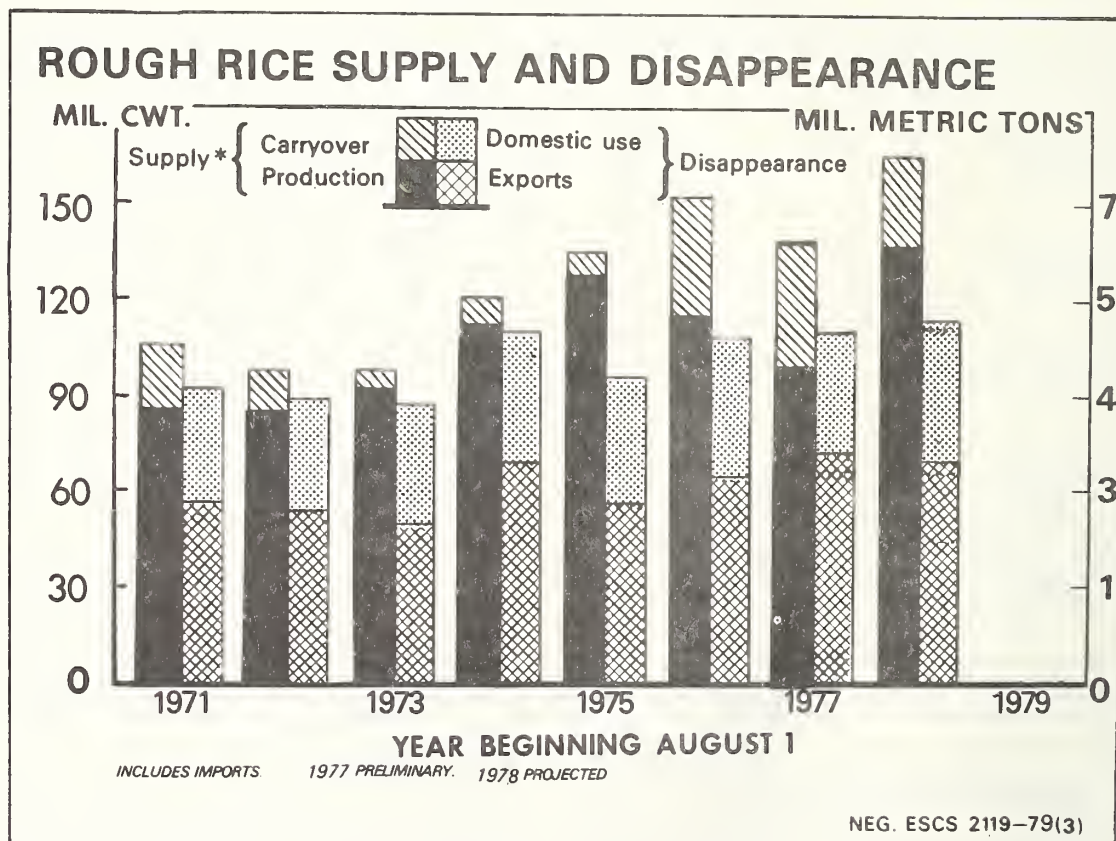
#### Record Rice Supply

U.S. producers responded to very favorable rice prices last spring and planted an all-time high 3.1 million acres. This was over a third more than in 1977 and well above the previous record of 2.8 million acres in 1975. Good overall harvest conditions, improved yields, and the large acreage combined to produce a record 1978 crop of 138 million cwt. Although carryin stocks were the lowest since 1975, the large crop pushed total 1978/79 supply to a record 165 million cwt., 18 percent above a year ago.

The smaller August 1 carryin stocks, 27.4 million cwt. compared with 40.5 million in 1977, reflected the nearly 50-percent drawdown of medium grain stocks. Thus, this year's medium grain rice supply is modestly above a year ago while long and short grain supplies are at all-time highs.

#### January 1 Stocks Record Large; Long Grain Major Contributor

With a bumper 1978 crop, January 1 rice stocks (rough equivalent) reached 105.8 million cwt., the





largest ever for that date. Farm stocks of 28 million cwt. were sharply larger than the 8 million cwt. of last January. This increase reflects the record crop, the increased capacity of on-farm rice drying and storage facilities, and early season orderly marketing practices of many growers. All States showed hefty increases in on-farm stocks, with the largest, 11 million cwt., reported in Arkansas.

Rough rice, totaling a record 96 million cwt., accounted for the bulk of the stocks. Long grain varieties accounted for 57 percent of total stocks, medium 32 percent, and short grain 11 percent. Short grain stocks rose nearly 40 percent, while long grain stocks were up 28 percent, and medium grain registered a 10-percent increase. The slow August-December export pace of short grain rice did little to reduce its record supply.

Rice carryover by class January 1, 1978 and 1979

Class	Rough		Milled <sup>1</sup>		Total	
	1977	1978	1977	1978	1977	1978
<i>Million cwt.</i>						
Long .....	42.6	54.8	5.8	7.0	48.4	61.8
Medium .....	26.6	30.8	2.9	1.6	29.5	32.4
Short .....	7.9	10.3	.6	1.3	8.5	11.6
Total .....	77.1	95.9	9.3	9.9	86.4	105.8

<sup>1</sup> Rough equivalent.

January 1 milled rice stocks were also at a new high, 7.1 million cwt., about 10 percent above a year earlier.<sup>4</sup> Long and short milled rice inventories accounted for all of the increase, but the most marked stock buildup occurred in California warehouses, where mills had increased December production awaiting P.L. 480 loadings to Peru.

On August 1, the Commodity Credit Corporation (CCC) owned about 10 million cwt., or 40 percent of

<sup>4</sup>As of March 8, 1979, USDA's Crop Reporting Board revised total January 1, 1979 milled rice stock data as reported in the *Rice Stocks* report of January 25. Stocks of 8.4 million cwt. were revised to 7.1 million.

CCC Stocks by Class and State as of March 1, 1979

State	Long	Medium	Short	Total <sup>1</sup>
<i>1,000 cwt.</i>				
Arkansas .....	701	150	—	851
Louisiana .....	273	1,108	—	1,381
Mississippi .....	84	86	—	170
California .....	—	2,692	111	2,803
Texas .....	2,371	2,115	—	4,486
U.S. total <sup>2</sup> .....	3,429	6,151	111	9,691

<sup>1</sup> Preliminary. <sup>2</sup> Totals may not add due to rounding.

Source: ASCS.

the 27-million-cwt. carryin. By January 1, the same quantity of CCC stocks represented less than 10 percent of the total supply. About two-thirds of CCC's stocks are medium grain, mostly located in California and Texas, while the other third is long grain rice, mostly stored in Texas warehouses.

### Domestic Use Shows Recovery

During August-December, apparent domestic food use of rice showed a 44-percent increase over the same period a year earlier (table 3). This is an exceptionally large increase for a food product whose normal growth rate is around 2 percent per year. This sharp increase probably reflects some correction of the sizable decline in apparent civilian rice consumption during April-July 1978.<sup>5</sup> Total 1978/79 domestic food use is projected around 29 million cwt., up 2 million cwt. from the average of the last 5 years. This increase reflects the long-term uptrend in rice consumption and inclusion of more staple food products such as rice in diets to help reduce food expenditures during a period of rapidly increasing meat prices.

Brewers rice use surged about 13 percent during August-December reflecting increased supplies and more attractive price levels relative to substitute ingredients. Brewers rice use for 1978/79 is near a record amount.

<sup>5</sup>For further discussion of 1977/78 domestic rice food use see page 6 of the October 1978 *Rice Situation*.

Rough rice: U.S. supply by class August 1, 1977 and 1978

Item	1977				1978			
	Long	Medium	Short	Total	Long	Medium	Short	Total
<i>Million cwt.</i>								
Carryover .....	16.1	20.8	3.6	40.5	12.6	11.0	3.8	27.4
Production .....	62.2	26.3	10.7	99.2	88.0	37.6	12.2	137.8
Total supply .....	78.3	47.1	14.3	139.7	100.6	48.6	16.0	165.2

## Exports Near Record Pace

Although record world rice supplies are expected to cause a modest reduction in 1978/79 U.S. rice exports, continued expansion in world rice consumption provides the base for another strong export year. Last year's exports totaled nearly 73 million cwt. (rough equivalent), an all-time high. Although this year's rice exports are projected to be modestly lower (70 million cwt.), August-December shipments of around 32 million cwt. were on par with last year's record-setting pace. Over halfway through the current marketing year, commitments (shipments plus outstanding sales) remained strong due to continued growth in commercial demand for parboiled and quality white rice. The record-large quantity of U.S. paddy rice (rough) exported to Italy in 1977/78 continues at the same level this year, suggesting that this type of rice export sale to Italy may continue as an important market.

August-December P.L. 480 commitments were largely confined to sales carried over from last season and made early in the marketing year. P.L. 480 activity should pick up in coming months and provide for expanded purchases. About 21 million

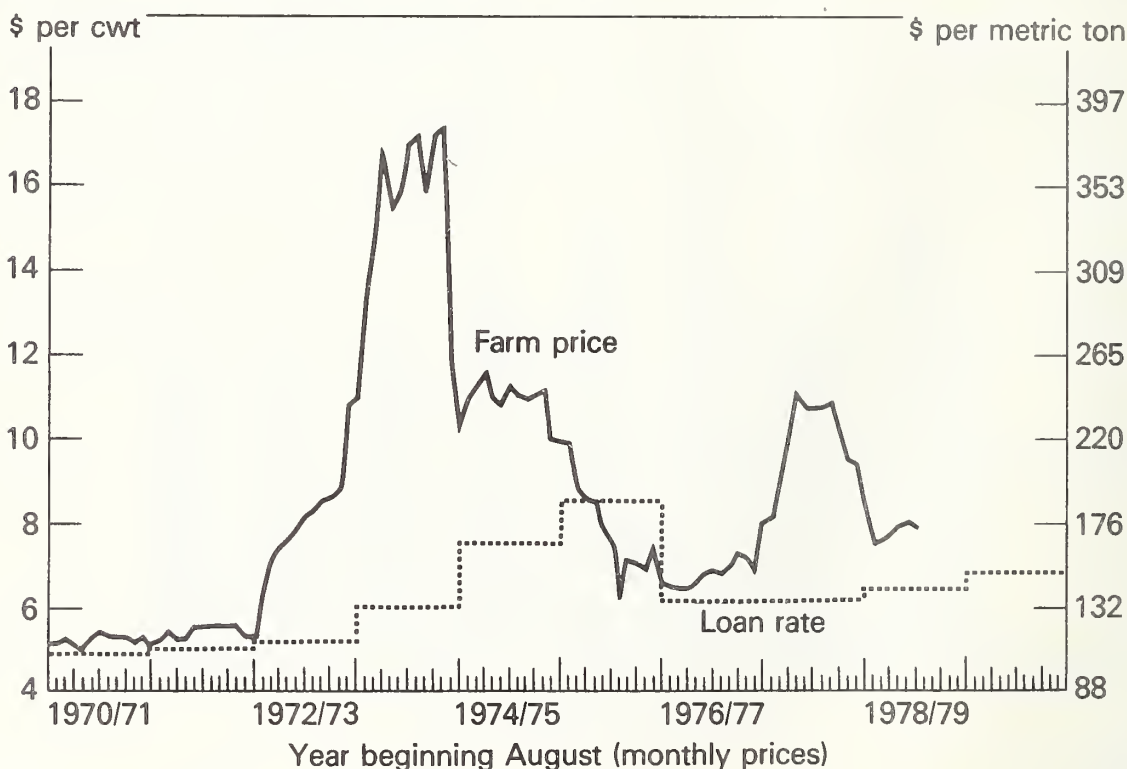
cwt. of P.L. 480 rice shipments are projected for the 1978/79 marketing year.

The unrest in Iran casts uncertainties on the United States' most important commercial rice market. Currently, deliveries to Iran are down about 20 percent compared to last year. However, sales to Western Europe have been exceptionally heavy for the second consecutive year, with purchases from Portugal, Italy, and the United Kingdom at higher levels. Another big year appears likely for sales to the Middle East, particularly to Iraq, Saudi Arabia, and Syria. African markets, particularly Nigeria and the Ivory Coast, continue strong. The major Asian rice buyers, Indonesia and Bangladesh, have cut back on their U.S. purchases because of large 1978 rice harvests.

## Prices Weaken from Season's High

A record-large rice supply caused 1978/79 farm prices to slip well below last year's level. Early-season prices (August and September) were only off about 50 cents per cwt.; February prices are down nearly \$3 from a year ago. This large spread reflects the extremely strong midseason 1977/78

## Rough Rice Farm Prices and Loan Rates



USDA

Neg. ESCS 408-79 (3)

prices (about \$11 per cwt.), rather than any collapse of this year's prices.

Average farm prices have showed some seasonal strength since harvest, and remained fairly steady around \$8 per cwt. through midwinter. February prices slipped from this level and prices are expected to weaken through the remainder of the marketing year. Some support is expected from the good export demand for high-quality long grain and parboiled rice, while prices for lower quality will be depressed to near the loan level. The average farm price for the 1978/79 season may range from \$7.50 to \$7.80 per cwt., down from 1977's \$9.49 but still more than \$1 above the \$6.40 loan rate.

Farm prices for the first 5 months of the marketing year will average below the \$8.53 target price. Upon final determination of this average price, deficiency payments will be paid to growers on the normal production from their allotment acres. This would mark the second time rice deficiency payments have been made under the authority of the Food and Agriculture Act of 1977.

## Loan Activity Up; Some CCC Takeover in Prospect

This year's farm price/loan level spread has narrowed from 1977/78's, prompting increased use of the loan program from 20 million cwt. to 26 million. Redemptions have been small and outstanding loans still total nearly 16 million cwt. as of March 14.

With prospects for weakening prices, redemptions will remain slow and more loan rice should enter the recently established 8-million-cwt. farmer-owned rice reserve program, which currently holds around 100,000 cwt.<sup>6</sup> Those 1978 crop loans which become due on June 30, 1979 and are not redeemed or placed in the reserve will be forfeited to the CCC. Prospects are strong for some lower quality 1978 rice to be taken over by the government, adding to present CCC stocks of 10 million cwt.

<sup>6</sup>For discussion of program provisions, see page 8 of the October 1978 *Rice Situation*.

## OUTLOOK FOR 1979/80

### 1979 Program Announced

On January 29, 1979, USDA announced the provisions of the 1979 rice program. Major features of the new program include:

- No set-aside or paid diversion program, which is the same as for the 1978 crop.
- An upward adjustment in 1979 target price and loan rate to reflect increases in costs of production. The target price was set at \$9.05 per cwt., up 52 cents from last year. The loan rate was adjusted upward from \$6.40 to \$6.79 per cwt., the same percentage increase as the target price.
- A national acreage allotment of 1.8 million acres, the same as in 1978, apportioned on the basis of the 1975 crop.
- No limit on acreage planted to rice, although program benefits are available on allotment acres only.
- A \$50,000 limitation on rice deficiency payments per producer, compared to \$52,250 in 1978.

### Producers Plan Fewer Acres

With rice prices considerably lower this year relative to competing crops, producers have indicated an acreage cut for 1979. This outlook primarily reflects the record-large carryover from the 1978 rice crop and a strong price outlook for soybeans.

As of January 1, 1979, growers intended to plant 2.9 million acres to rice, down from 3.1 million in 1978. A reduction in long grain varieties accounts for 79,000 acres, or nearly half, of the total acreage cutback. All major long-grain producing States except Louisiana indicated a 5-percent cut. Louisiana producers plan for the same acreage as 1978.

Planting intentions for medium grain were off 66,000 acres, or 8 percent, in the January report. California's acreage should be up 13 percent based on the report, while growers in Arkansas and Louisiana planned to cut acreage 30 and 16 percent, respectively. The indicated increase in California's acreage reflects both some switching from short grain to medium and an excellent outlook for irrigation water.

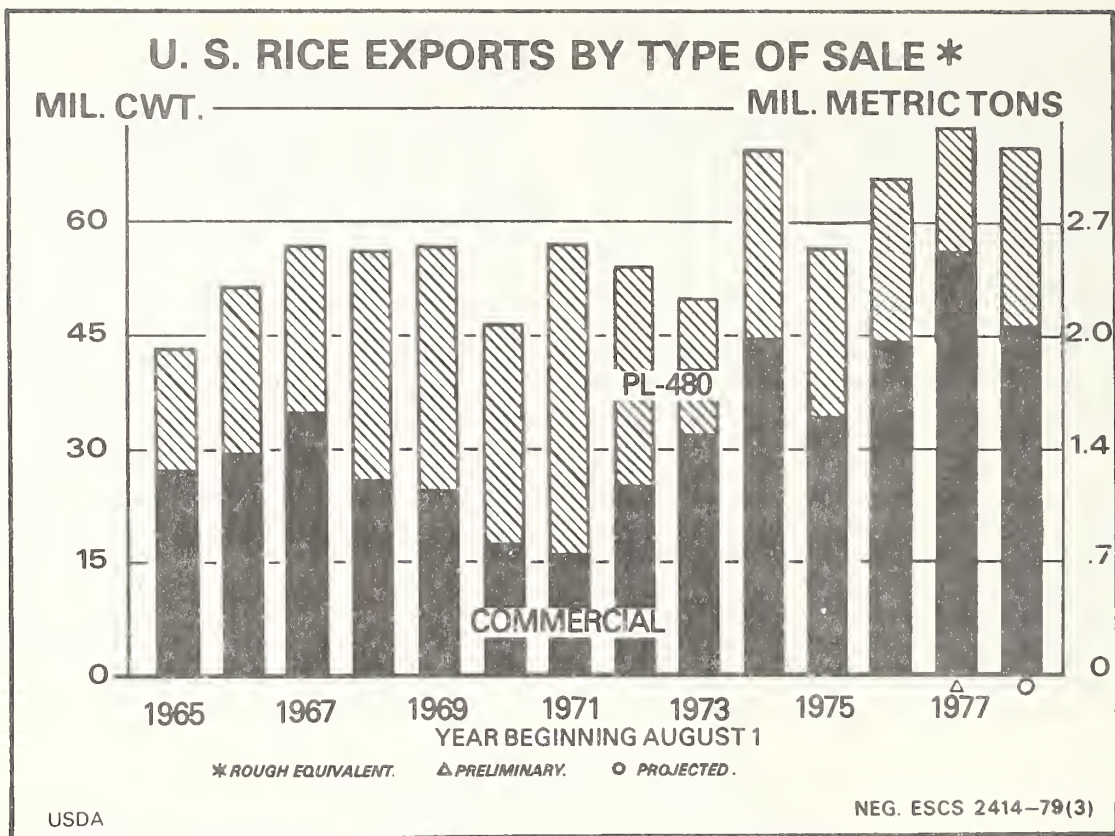
Short-grain plantings were indicated to be down 23,000 acres, or 10 percent, in the January report. California and Arkansas producers' early planting

Rice prices compared with soybeans and cotton<sup>1</sup>

Item	1975	1976	1977	1978	1979
	Percent				
Soybean/rice .....	84	99	171	86	148
Cotton/rice .....	288	682	943	480	683

<sup>1</sup>Based on mid-February farm price per cwt. except for 1977 which is a monthly price.





plans include a 10,000- and 13,000-acre reduction, respectively.

While 1979 planted acreage is dependent somewhat on weather developments, market prices will provide the most important signal for final planting decisions. But relatively strong soybean prices are likely to cause some year-to-year shifts in planted rice acreage. Since January 1, prospects for Brazil's soybean crop have diminished and U.S. soybean prices have risen. Based on this development, and prospects of a large carryover of

old-crop rice, it is likely that actual 1979 acreage could be cut further from the level indicated in the January intentions report. However, some early-season mid-South contracts for the 1979 rice crop call for base prices between \$7.75 and \$8 per cwt. These contract prices are down only slightly from mid-March cash markets and they may cushion the acreage-reducing effects of higher soybean prices. A reassessment of rice growers' planting plans will be forthcoming in USDA's April 15 *Prospective Plantings* report.



Table 2.--Rice, rough basis: Supply and distribution, United States,  
annual 1975-77, August-December 1977-78 1/

Item	Year beginning August			August-December	
	1975	1976	1977 <u>2/</u>	1977 <u>2/</u>	1978 <u>2/</u>
	- - - 1,000 cwt. - - -				
Beginning carryover	4,050	31,345	33,351	33,351	21,128
Farm production	128,437	115,648	99,223	99,223	137,805
Supply	132,487	146,993	132,574	132,574	158,933
Seed	3,500	3,200	4,400	---	---
Exports (rough only)	10	994	4,059	2,639	2,548
Used by mills	95,818	105,685	101,219	47,450	51,423
Total disappearance	99,328	109,879	109,678	50,089	53,971
Ending carryover	31,345	33,351	21,128	77,082	95,917
Statistical discrepancies <u>3/</u>	+1,814	+3,763	+1,768	+5,403	+9,045

1/ Includes supply and disappearance of rough rice only. 2/ Preliminary. 3/ Results from storage, handling and processing losses.

Table 3.--Rice, milled basis: Supply and distribution, United States,  
annual 1975-77, August-December 1977-78 1/

Item	Year beginning August			August-December	
	1975	1976	1977 <u>2/</u>	1977 <u>2/</u>	1978 <u>2/</u>
	- - - 1,000 cwt. - - -				
Beginning carryover	2,164	3,892	5,156	5,156	4,347
Mill production	67,440	76,209	70,176	32,680	36,636
Imports	31	36	47	23	20
Supply	69,635	80,137	75,379	37,859	41,003
Food					
Shipments to territories	4,130	4,597	3,911	1,460	1,116
Used by military	151	160	122	100	100
Civilian consumption	15,288	16,217	12,524	5,525	7,971
Total food	19,569	20,974	16,557	7,085	9,187
Used by brewers	6,391	7,450	6,826	2,754	3,121
Exports	39,783	46,557	47,649	21,576	21,580
Total disappearance	65,743	74,981	71,032	31,415	33,888
Ending carryover	3,892	5,156	4,347	6,444	7,115
Per capita civilian consumption (pounds)	7.2	7.6	5.8	---	---

1/ Includes supply and disappearance of milled rice only. 2/ Preliminary.

Table 4.--Rice: Acreage allotments, by States, 1975-79

States	Apportionment			
	1975	1976 and 1977	1978	1979
	- - - <u>Acres</u> - - -			
Arizona	250	3	---	---
Arkansas	435,322	434,630	434,941	435,116
California	327,037	326,568	326,540	326,598
Florida	1,044	1,012	950	951
Illinois	22	---	---	---
Louisiana	518,222	517,789	517,902	517,840
Mississippi	50,921	50,849	50,767	50,786
Missouri	5,191	5,185	4,964	4,965
North Carolina	41	41	41	41
Oklahoma	163	163	163	163
South Carolina	3,105	3,009	2,746	2,742
Tennessee	564	563	563	288
Texas	460,734	460,188	460,308	460,400
National Reserve	300	---	115	110
United States	1,802,916	1,800,000	1,800,000	1,800,000

Agriculture Stabilization and Conservation Service.

Table 5.--Rice: Production by class and States, 1974-78

Class and State	1974	1975	1976	1977	1978 <u>1/</u>
	- - - 1,000 cwt. - - -				
Long Grain					
Arkansas	25,105	29,370	32,538	28,463	43,188
California	-	-	-	-	-
Louisiana	8,140	6,002	8,052	6,308	9,163
Mississippi	4,473	6,552	6,006	4,360	9,052
Missouri	340	559	369	515	1,204
Texas	21,876	21,110	23,086	22,560	25,421
Total	59,934	63,593	70,051	62,206	88,028
Medium Grain					
Arkansas	6,953	9,541	6,714	6,016	7,607
California	14,873	19,520	14,322	8,085	15,698
Louisiana	15,950	19,062	14,151	11,137	13,262
Mississippi	40	69	42	80	86
Missouri	189	177	219	114	76
Texas	3,382	3,886	1,344	840	805
Total	41,387	52,255	36,792	26,272	37,534
Short Grain					
Arkansas	702	1,864	1,110	917	1,675
California	10,348	10,659	7,695	9,828	10,550
Mississippi	-	44	-	-	-
Missouri	15	22	-	-	18
Total	11,065	12,589	8,805	10,745	12,243

1/ Preliminary.

Source: Annual Crop Production, Crop Reporting Board, ESCS.

Table 6.--Rice, rough: Acreage, yield and production, by States, 1977 and 1978

State	Acreage				Yield per harvested acre		Production	
	Planted		Harvested					
	1977	1978 <u>1/</u>	1977	1978 <u>1/</u>	1977	1978 <u>1/</u>	1977	1978 <u>1/</u>
	- - - 1,000 acres - - -				- Pounds -		- 1,000 cwt. -	
Arkansas	840.0	1,180.0	837.0	1,170.0	4,230	4,485	35,396	52,470
California	310.0	500.0	308.0	499.0	5,810	5,260	17,913	26,248
Louisiana	480.0	590.0	475.0	587.0	3,670	3,820	17,445	22,425
Mississippi	112.0	220.0	111.0	215.0	4,000	4,250	4,440	9,138
Missouri	17.0	30.0	17.0	30.0	3,700	4,330	629	1,298
Texas	502.0	560.0	501.0	558.0	4,670	4,700	23,400	26,226
Total United States	2,261.0	3,080.0	2,249.0	3,059.0	4,412	4,505	99,223	137,805

1/ Preliminary.

Table 7.--Rice: Stocks, rough and milled, United States, for selected dates, 1973-79 1/

[illegible]

1/ These estimates do not include stocks located in States outside the major producing States of Missouri, Mississippi, Arkansas, Louisiana, Texas, and California. 2/ Preliminary.

Table 8.--Rice, rough: Price support activity by states, 1978 crop as of February 28, 1979

State	Placed under loan			Loans redeemed	Loans outstanding
	Farms	Warehouses	Total		
			- - - 1,000 cwt. - - -		
Arkansas	1,163	8,477	9,640	3,053	6,587
Louisiana	1,044	352	1,396	537	859
Texas	996	5,688	6,684	3,060	3,624
Mississippi	753	54	807	447	360
Missouri	6	---	6	3	3
South	3,962	14,571	18,533	7,100	11,433
California	---	7,483	7,483	1,600	5,883
United States	3,962	22,054	26,016	<u>1</u> 8,700	17,316

1/ Includes 46,000 cwt. placed in reserve.

Source: Agriculture Stabilization and Conservation Service, USDA.



Table 9.--Rice: Rough milled and heads produced by class and State, 1971-77

ROUGH RICE MILLED					MILLED HEADS PRODUCED <sup>1/</sup>				
Year beginning August	Long grain	Medium grain	Short grain	Total <sup>2/</sup>	Long grain	Medium grain	Short grain	Total <sup>2/</sup>	
- - - 1,000 cwt. - - -									
Arkansas <sup>3/</sup>									
1971	20,502.7	4,609.6	469.5	25,581.8	12,656.7	3,214.0	117.1	15,987.8	
1972	17,428.9	5,570.7	148.1	23,147.7	10,522.8	3,560.4	91.4	14,174.6	
1973	14,660.5	6,818.2	183.9	21,662.6	9,007.8	4,438.1	113.9	13,559.8	
1974	23,939.4	7,336.6	372.7	31,648.7	13,317.8	4,575.1	167.4	18,060.3	
1975	23,460.0	7,645.3	1,027.7	32,133.0	13,506.9	4,490.1	642.3	18,639.3	
1976	29,525.9	5,912.2	894.3	36,332.4	16,780.4	3,458.7	540.7	20,779.8	
1977	28,249.7	6,919.9	882.8	36,052.4	15,264.5	4,137.0	502.2	19,903.7	
Louisiana									
1971	5,312.9	11,275.7	---	16,588.6	2,959.8	7,286.6	---	10,246.4	
1972	4,099.5	10,980.4	---	15,079.9	2,183.9	6,727.1	---	8,911.0	
1973	3,363.7	11,717.4	---	15,081.1	1,741.1	6,941.9	---	8,683.0	
1974	7,621.2	13,928.2	---	21,549.4	4,084.6	9,139.7	---	13,224.3	
1975	4,310.5	9,937.8	---	14,248.3	2,436.1	5,996.0	---	8,432.1	
1976	5,516.9	12,872.1	---	18,389.0	3,124.1	7,930.4	---	11,054.5	
1977	4,555.1	12,227.3	---	16,782.4	2,505.2	7,321.9	---	9,827.1	
Texas									
1971	24,157.0	4,257.8	---	28,414.8	14,651.4	3,227.8	---	17,879.2	
1972	21,055.3	5,251.0	---	26,306.3	12,956.8	3,396.2	---	16,353.0	
1973	20,710.8	6,310.9	---	27,021.7	12,764.9	3,801.4	30.9	16,597.2	
1974	26,524.4	2,382.3	---	28,906.7	16,148.2	1,539.4	---	17,687.6	
1975	23,448.8	3,510.4	---	26,959.2	13,923.1	2,266.8	---	16,189.9	
1976	29,715.1	1,467.5	---	31,182.6	19,086.2	899.1	---	19,985.3	
1977	27,970.2	1,818.3	---	29,788.5	17,206.1	1,109.3	---	18,315.4	
Total South									
1971	49,972.6	20,143.1	469.5	70,585.2	30,267.9	13,728.4	117.1	44,113.4	
1972	42,583.7	21,802.1	148.1	64,533.9	25,663.5	13,683.7	91.4	39,438.6	
1973	38,735.0	24,846.5	183.9	63,765.4	23,513.8	15,181.4	144.8	38,840.0	
1974	58,085.0	23,647.0	372.7	82,104.8	33,550.6	15,254.2	167.4	48,972.2	
1975	51,219.3	21,093.5	1,027.7	73,340.5	29,866.1	12,752.9	642.3	43,261.3	
1976	64,757.9	20,251.8	894.3	85,904.0	38,990.7	12,288.2	540.7	51,819.6	
1977	60,775.0	20,965.5	882.8	82,623.3	34,975.8	12,568.2	502.2	48,046.2	
California									
1971	---	9,311.8	8,027.6	17,339.4	---	6,648.5	4,584.9	11,233.4	
1972	---	12,182.5	8,672.6	20,855.1	---	9,056.7	5,385.0	14,441.7	
1973	---	11,695.8	9,978.6	21,674.4	---	7,769.7	6,080.1	13,849.8	
1974	---	13,842.0	9,679.3	23,521.4	---	9,523.4	6,144.3	15,667.7	
1975	---	14,498.8	7,978.6	22,477.4	---	9,521.1	4,815.1	14,336.2	
1976	---	11,098.3	8,683.2	19,781.5	---	7,215.9	4,864.9	12,080.8	
1977	---	10,466.3	8,129.3	18,595.6	---	6,270.5	4,469.0	10,739.5	
Total United States									
1971	49,972.6	29,454.9	8,497.1	87,924.6	30,267.9	20,376.9	4,702.0	55,346.8	
1972	42,583.7	33,984.6	8,820.7	85,389.0	25,663.5	22,740.4	5,476.4	53,880.3	
1973	38,735.0	36,542.3	10,162.5	85,439.8	23,513.8	22,951.1	6,224.9	52,689.8	
1974	58,085.0	37,489.0	10,052.0	105,626.1	33,550.6	24,777.6	6,311.7	64,639.9	
1975	51,219.3	35,592.3	9,006.3	95,817.9	29,866.1	22,274.0	5,457.4	57,597.5	
1976	64,757.9	31,350.1	9,577.5	105,685.5	38,990.7	19,504.1	5,405.6	63,900.4	
1977	60,775.0	31,431.8	9,012.1	101,218.9	34,975.8	18,838.7	4,971.2	58,785.7	

<sup>1/</sup> Includes brown rice.<sup>2/</sup> Total may not add due to rounding.<sup>3/</sup> Mills at Memphis, Tennessee, and Cleveland, Mississippi, are included in Arkansas.

Data compiled from reports of the Rice Millers' Association and the California Market News Service.

Table 10.--Rice, rough: Monthly prices received by farmers, United States, 1972-79

Year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Season average
													1/
	----- Dollars per cwt. -----												
1972	5.34	6.37	7.05	7.42	7.64	7.84	8.14	8.26	8.51	8.56	8.74	10.80	6.73
1973	10.90	13.30	14.80	16.70	15.50	15.80	16.90	17.20	15.90	17.20	17.50	11.90	13.80
1974	10.20	10.90	11.30	11.60	10.90	10.80	11.30	11.10	11.00	11.10	11.20	10.00	11.20
1975	9.83	9.19	8.87	8.59	8.51	7.95	7.54	6.17	7.15	7.06	6.82	7.45	8.35
1976	6.65	6.56	6.48	6.46	6.57	6.79	6.87	6.81	6.95	7.30	7.24	6.87	7.02
1977	8.02	8.12	9.13	10.20	11.00	10.70	10.70	10.70	10.80	10.10	9.58	9.49	9.49
1978	8.44	7.56	7.62	7.76	7.98	8.07	2/7.86						7.69

1/ U.S. season average prices include an allowance for unredeemed loans and purchases by the Government, valued at the average loan rate, by States. Monthly prices do not include this allowance. California is excluded in the monthly averages but is included in the U.S. season average. 2/ Preliminary.

Table 11.--Rice: Monthly average price at Southwest Louisiana, 1975-79

Year beginning August	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Average
	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.	Dol.
	Milled, long-grain Second Head, per 100 pounds, bagged 1/												
1975	9.25	9.75	9.75	9.00	8.10	6.90	6.95	6.75	7.75	8.00	8.25	8.45	8.25
1976	7.00	6.80	7.05	6.80	6.75	6.15	6.20	6.25	6.50	6.95	7.25	7.25	6.75
1977	6.85	6.95	7.15	7.95	8.50	8.50	9.00	9.50	9.50	9.25	9.25	9.25	8.45
1978	8.90	8.50	8.50	8.50	8.50	8.15	7.90						
1979													
	Rice Bran, f.o.b. mills, per ton 2/												
1975	64.00	68.00	60.60	69.40	87.00	92.50	71.50	68.00	62.00	54.85	60.50	62.50	68.40
1976	68.50	71.00	68.00	73.10	73.30	71.20	74.75	66.10	54.00	51.75	45.50	44.50	63.45
1977	42.10	33.10	31.90	51.90	62.50	58.00	53.25	51.90	38.75	41.50	60.90	61.60	48.95
1978	47.60	34.40	38.50	64.50	72.85	67.50	65.60						
1979													
	Rice Millfeed, f.o.b. mills, per ton 2/												
1975	24.65	32.20	30.50	28.25	40.25	48.10	41.25	28.10	17.50	17.85	23.70	33.35	30.45
1976	23.90	22.10	22.50	30.90	38.35	25.25	25.25	19.10	14.50	11.25	11.00	9.50	21.15
1977	9.85	8.90	7.00	15.50	18.50	15.75	12.40	12.40	9.90	11.70	15.50	15.50	12.75
1978	13.25	6.40	8.10	19.50	24.15	24.10	23.00						
1979													

1/ U.S. No. 4 or better. 2/ Prices quoted as bulk.

Table 12.--Prices: Arkansas brewers rice and New York brewers corn grits, August-July, 1975-79

Year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Simple average
	----- Dollars per cwt. -----												
	Arkansas												
1975/76	7.10	7.40	7.50	6.60	6.20	6.25	5.75	5.80	5.80	5.85	5.85	5.75	6.30
1976/77	5.75	5.75	5.75	5.75	5.65	5.40	5.10	5.10	5.60	6.00	6.00	5.50	5.60
1977/78	5.50	5.50	5.50	5.50	6.50	6.90	8.00	9.55	9.10	9.00	9.00	8.70	7.40
1978/79	7.40	7.10	7.50	7.40	7.10	6.80	6.75						
	New York												
1975/76	9.88	9.77	8.77	8.28	8.17	7.94	8.04	8.46	8.76	8.95	9.14	9.20	8.78
1976/77	8.97	8.91	8.28	7.62	7.80	7.80	7.92	8.05	8.02	7.72	7.59	7.11	7.98
1977/78	7.06	6.80	6.99	7.18	7.27	7.16	7.32	7.39	7.94	8.13	8.38	8.00	7.47
1978/79	7.63	7.47	7.43	7.59	7.76	8.10	NQ						

NQ = Not Quoted.

SOURCE: Rice Market News and Milling and Baking News.



Table 14.--Rice, milled U.S. f.o.b. mills: Average price of Louisiana and California head rice at milling centers, by months, 1973-79

Year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Average
- - - - Dollars per cwt. bagged - - - -													
Southwest Louisiana, Long Grain 1/													
1973	20.20	24.90	28.35	33.00	33.00	33.50	33.50	33.50	33.50	33.50	30.00	28.10	30.40
1974	26.67	20.10	20.19	21.00	22.00	21.50	21.50	21.50	21.50	20.00	20.90	21.50	21.55
1975	20.55	18.30	18.00	18.00	17.60	17.40	16.50	15.50	15.30	16.60	16.50	16.25	17.20
1976	14.70	13.85	14.00	13.75	13.60	13.25	13.50	13.95	15.65	16.45	16.25	16.25	14.60
1977	15.95	16.20	17.75	22.10	24.15	24.00	24.00	23.75	23.50	22.00	21.50	20.40	21.30
1978 2/	18.75	15.75	16.15	16.25	16.40	16.30	16.75						
Southwest Louisiana, Medium Grain 1/													
1973	17.10	19.60	22.65	29.50	29.85	30.00	30.00	30.00	30.00	30.00	25.00	23.00	26.40
1974	22.00	18.60	19.10	20.00	20.70	20.65	20.75	20.50	20.50	19.00	19.30	19.50	20.05
1975	18.90	16.80	16.75	17.00	16.70	15.60	14.75	13.50	13.95	15.50	15.50	15.25	15.85
1976	13.70	12.85	13.00	12.30	11.90	11.25	11.70	12.20	14.10	15.60	15.50	15.25	13.30
1977	14.60	14.95	16.30	20.75	21.85	21.50	21.50	21.00	20.50	19.00	18.75	18.50	19.10
1978 2/	16.90	14.50	14.50	14.50	14.65	14.15	14.00						
California, Medium Grain 3/													
1973	13.00	16.75	18.50	24.00	27.50	27.50	27.50	29.50	29.50	29.50	29.50	29.50	25.20
1974	29.50	28.20	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.25	26.70
1975	26.25	26.25	24.25	24.25	24.25	23.50	22.70	19.65	18.70	19.00	19.00	16.80	22.05
1976	16.80	16.80	16.60	16.60	16.60	16.60	16.60	16.60	16.60	17.00	17.30	17.40	16.80
1977	17.40	17.40	18.10	20.55	23.00	23.60	23.60	23.60	23.60	23.60	23.60	23.60	21.80
1978 2/	21.50	20.55	20.10	19.75	19.75	19.75	18.25						
California, Short Grain 3/													
1973	13.00	16.75	18.50	22.25	26.00	26.00	28.00	28.00	28.00	28.00	28.00	28.00	24.20
1974	28.00	26.80	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.00	25.40
1975	25.00	25.00	23.00	23.00	23.00	22.25	21.40	17.85	17.15	17.50	17.50	15.15	20.65
1976	15.15	15.15	14.85	14.75	14.75	14.75	14.75	14.75	14.95	15.50	16.05	16.25	15.15
1977	16.25	16.25	16.65	19.20	22.00	22.00	22.00	22.00	22.00	22.00	22.00	22.00	20.35
1978 2/	20.25	19.00	18.20	17.40	17.50	17.50	16.75						

1/ U.S. No. 2--broken not to exceed 4 percent. 2/ Preliminary. 3/ U.S. No. 1.

Rice Market News, Agricultural Marketing Service, California.



Table 15.--U.S. milled rice exports by type of sale, Fiscal years, 1964-78

Fiscal Year	Commercial	Under Government Programs				Total exports
		Title I	Title II	Aid	Total	
		<u>1/</u>	<u>2/</u>	<u>3/</u>		
		- - - <u>1,000 metric tons</u> - - -				
1964	713	674	---	30	704	1,417
1965	725	566	---	1	567	1,292
1966	925	359	---	91	450	1,375
1967	953	828	---	-1	827	1,780
1968	1,104	734	---	25	759	1,863
1969	748	984	9	6	999	1,747
1970	844	940	7	3	950	1,794
1971	602	923	---	152	1,075	1,677
1972	499	814	248	142	1,204	1,703
1973	821	964	33	123	1,120	1,941
1974	972	606	---	6	612	1,584
1975	1,548	741	6	<u>4/</u>	747	2,295
1976 <u>5/</u>	1,234	976	---	5	981	2,215
1977 <u>6/</u>	1,577	661	25	<u>4/</u>	686	2,263
1978 Prel.	1,667	461	64	---	525	2,192

1/ Includes local currency, convertible local currency, dollar credit, and private trade. 2/ Includes Government-to-Government, world food, and voluntary relief. 3/ Mutual Security Aid. 4/ Less than 500 metric tons. 5/ Includes Transitional Quarter July-September 1976. 6/ Fiscal year has been changed from July-June to October-September.

Office of the General Sales Manager, USDA and Foreign Demand and Competition Division, ESCS.

Table 16.--U.S. milled rice exports under Government Programs by country of destination, 1973-78

Country of destination	FY 1973	FY 1974	FY 1975	FY 1976 <u>1/</u>	FY 1977 <u>2/</u>	FY 1978 <u>3/</u>
				<u>1,000 metric tons</u>		
Guinea	---	---	13	12	13	23
Honduras	---	---	11	---	<u>4/</u>	---
India	---	---	---	94	3	4
Indonesia	155	---	---	178	374	378
Israel	---	---	---	3	<u>4/</u>	---
Ivory Coast	<u>4/</u>	---	---	---	---	<u>4/</u>
Khmer (Cambodia)	73	285	217	<u>4/</u>	---	---
Korea, Republic of	427	7	208	228	61	---
Liberia	---	---	---	---	<u>4/</u>	---
Philippines	75	---	---	---	---	---
Portugal	---	---	---	77	64	---
Syria	---	---	14	42	35	21
Tanzania	---	---	15	6	18	20
Relief of Dacca (Bangladesh)	---	---	269	311	64	20
Vietnam, South	382	320	---	---	---	---
Western Africa, N.E.C.	---	---	---	2	---	---
Zaire	---	---	---	28	3	12
Other	8	---	---	---	51	47
Total	1,120	612	747	981	686	525

1/ Includes Transitional Quarter, July-September 1976. 2/ Fiscal year has been changed from July-June to October-September. 3/ Preliminary. 4/ Less than 500 metric tons.

Office of the General Sales Manager, USDA and Foreign Demand and Competition Division, ESCS.

Table 17.--Rice, rough: Acreage, yield and production in specified countries, average 1972-76, annual 1977 and 1978 1/

CONTINENT AND COUNTRY	AREA		YIELD		PRODUCTION	
	1977	1978	1977	1978	1977	1978
	1,000 HA	1,000 HA	MT/HA	MT/HA	1,000 MT	1,000 MT
<b>NORTH AMERICA</b>						
COSTA RICA.....	65	70	1.94	2.13	126	149
CUBA.....	199	200	2.05	2.10	406	420
DOMINICAN REPUBLIC.....	76	115	3.20	2.44	243	273
EL SALVADOR.....	13	13	3.41	2.60	43	34
GUATEMALA.....	22	15	2.50	1.72	55	26
HAITI.....	76	76	1.03	1.38	78	105
HONDURAS.....	15	15	2.10	1.93	32	27
JAMAICA AND DEP.....	1	1	.50	6.25	6	6
MEXICO.....	173	156	2.90	3.36	502	525
NICARAGUA.....	30	25	2.83	3.05	85	76
PANAMA.....	107	105	1.49	1.77	159	186
TRINIDAD-TOBAGO.....	7	8	2.19	3.00	15	24
UNITED STATES.....	956	910	5.07	4.95	4,847	4,500
<b>TOTAL.....</b>	<b>1,739</b>	<b>1,705</b>	<b>3.79</b>	<b>3.72</b>	<b>6,592</b>	<b>6,350</b>
<b>SOUTH AMERICA</b>						
ARGENTINA.....	85	95	3.64	2.95	311	280
BOLIVIA.....	55	63	1.69	1.77	92	111
BRAZIL.....	5,181	5,200	1.41	1.44	7,323	7,491
CHILE.....	24	33	3.17	3.17	75	105
COLOMBIA.....	332	325	4.30	3.99	1,384	1,297
ECUADOR.....	103	95	2.51	2.58	259	245
GUYANA.....	98	141	2.04	2.31	201	326
PARAGUAY.....	23	38	1.97	1.97	49	75
PERU.....	121	125	4.11	4.44	499	555
SURINAM.....	44	50	3.60	3.73	159	199
URUGUAY.....	47	58	3.97	3.90	186	240
VENEZUELA.....	100	148	2.74	3.43	275	508
<b>TOTAL.....</b>	<b>6,214</b>	<b>6,371</b>	<b>1.74</b>	<b>1.79</b>	<b>10,813</b>	<b>11,418</b>
<b>EUROPE</b>						
FRANCE.....	14	10	3.25	1.60	45	16
ITALY.....	183	186	5.19	3.86	952	719
<b>TOTAL EC.....</b>	<b>197</b>	<b>196</b>	<b>5.05</b>	<b>3.75</b>	<b>997</b>	<b>735</b>
GREECE.....	19	19	5.02	4.93	91	94
PORTUGAL.....	33	34	4.13	2.99	138	102
SPAIN.....	61	67	6.13	5.67	377	380
<b>TOTAL WESTERN EUROPE...</b>	<b>310</b>	<b>316</b>	<b>5.17</b>	<b>4.14</b>	<b>1,603</b>	<b>1,310</b>
BULGARIA.....	17	18	3.83	3.87	64	70
HUNGARY.....	27	27	2.09	1.89	57	51
ROMANIA.....	23	28	2.18	1.75	49	49
YUGOSLAVIA.....	8	8	4.50	4.75	34	38
<b>TOTAL EASTERN EUROPE...</b>	<b>75</b>	<b>81</b>	<b>2.75</b>	<b>2.56</b>	<b>205</b>	<b>208</b>
<b>TOTAL EUROPE.....</b>	<b>385</b>	<b>397</b>	<b>4.70</b>	<b>3.82</b>	<b>1,808</b>	<b>1,517</b>
U.S.S.R. (EUROPE AND ASIA)...	480	546	3.89	4.06	1,867	2,217

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Foreign Agricultural Service. Prepared or estimated on the basis of official statistics of foreign governments, reports of U.S. Agricultural Attaches and other foreign source materials.

Table 18.--Rice: Export prices at Thailand by months, white f.o.b.  
Bangkok, 1973-79 1/

Crop year	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Simple average
Dollars per metric ton - - - -													
100% 1st grade													
1973	---	---	---	---	---	567	595	622	654	650	622	549	608
1974	551	544	528	478	455	422	429	421	425	412	376	362	450
1975	382	391	385	359	345	316	278	275	270	270	264	266	317
1976	270	295	300	290	290	287	284	291	284	289	292	300	289
1977	306	306	306	321	352	368	402	425	440	438	432	414	376
1978 2/	396	399	390	345	324	329	330						
100% 2nd grade													
1973	---	---	---	---	---	552	580	608	639	635	608	534	594
1974	536	529	514	468	445	412	419	411	415	402	361	347	438
1975	368	376	370	344	330	296	261	260	260	260	254	256	303
1976	259	280	285	275	275	272	270	275	267	273	280	285	275
1977	290	290	291	307	338	352	388	410	425	423	418	399	361
1978 2/	381	384	375	330	309	314	315						
5% broken													
1973	---	---	---	---	---	541	575	598	629	625	596	519	583
1974	521	514	499	452	430	398	404	396	400	388	344	327	423
1975	348	358	353	330	307	274	253	248	246	246	242	244	287
1976	243	266	270	259	258	259	257	261	252	257	264	272	260
1977	275	275	278	294	324	338	374	396	411	409	404	384	347
1978 2/	366	369	360	315	294	299	300						

1/ Milled rice, includes export premium, export tax and cost of bags. Packed in bags of 100 kgs. net.

2/ Preliminary.

Rice Market News. Agricultural Marketing Service, California.



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RICE

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### Weights, Measures and Conversion Factors

#### Bushel weights:

Wheat & soybeans = 60 lbs.  
Corn, sorghum & rye = 56 lbs.  
Barley (grain) = 48 lbs.: malt = 34 lbs.  
Oats = 32 lbs.

#### Bushels to metric tons:

Wheat & soybeans = bushels x .027216  
Barley = bushels x .021772  
Corn, sorghum, rye = bushels x .025400  
Oats = bushels x .014515

#### 1 Metric ton equals:

2204.622 lbs.  
22.046 hundredweight  
10 quintals

#### 1,000 kilograms

36.7437 bushels wheat or soybeans  
39.3679 bushels corn, sorghum, or rye  
45.9296 bushels barley  
68.8944 bushels oats

#### Area:

1 Acre = .404694 hectares  
1 Hectare = 2.4710 acres

#### Yields:

Wheat = bushels per acre x 0.6725 = quintals per hectare  
Rye, corn = bushels per acre x 0.6277 = quintals per hectare  
Barley = bushels per acre x 0.5380 = quintals per hectare  
Oats = bushels per acre x 0.3587 = quintals per hectare

### Rice Factors

1 cwt. = 2.22 bushels = .617 barrels = .0453 metric tons	1 cwt. rough rice = .032659 metric ton milled
1 bu. = .45 cwt. = .277 barrels = .0204 metric tons	1 metric ton milled = 30.6198 cwt. rough
1 barrel = 3.6 bu. = 1.62 cwt. = .0734 metric tons	
1 metric ton = 48.992 bu. = 13.609 barrels = 22.046 cwt.	
bu. per acre x 0.5044 = quintals per hectare	Milling rates
lbs. per acre x 0.01121 = quintals per hectare	Rough to brown = 82%
	Rough to milled = 72%